Claims:

1. A double-sided image film screen having a projection structure, comprising:

a transparent material made of one selected from the group consisting of polyester, acryl and polycarbonate; and

a light-refracting material, made of silica, contained in or deposited on the transparent material,

wherein a content and a particle size of the light-refracting material and a thickness of the film screen mutually interact so that an image formed on the film screen by means of light projected from a projector is dividedly displayed on front and rear surfaces of the film screen, thereby displaying the image formed thereon though the front and rear surfaces thereof and eliminating a hot spot.

2. The double-sided image film screen as set forth in claim 1, wherein:

the content (C) of the light-refracting material in the film screen is in the range of range of 800ppm to 90,000ppm;

the particle size (B) of the light-refracting material is in the range of 0.1㎛ to 50㎛; and

the thickness (A) of the film screen is in the range of 10㎛ to 400㎛.

3. The double-sided image film screen as set forth in claim 1 or 2, wherein:

a rotary rod is installed at an upper end of the film screen; and

the film screen is rolled up into and down from the rotary rod, and serves as a rolled-type screen.

4. The double-sided image film screen as set forth in claim 1 or 2,

wherein the film screen is fixed to a transparent plate so that the film screen can be transferred upward and downward by means of a rotary rod.

5. The double-sided image film screen as set forth in claim 1 or 2,

wherein the film screen is attached to a glass window so that viewers at

outdoor and indoor places can view the film screen through both surfaces thereof.

6. The double-sided image film screen as set forth in claim 1 or 2,

wherein a projector is installed under the film screen and a reflecting mirror is installed in front of the projector to prepare one video system so that viewers can view an image displayed on the front and rear surfaces of the film screen.

7. The double-sided image film screen as set forth in claim 1 or 2,

wherein a reflection plane is formed on one surface of the film screen so that the film screen serves as a reflection-type screen without the generation of a hot spot.

8. The double-sided image film screen as set forth in claim 1 or 2,

wherein the light-refracting material of the film screen is a light-transmitting material made of titania (TiO_2).

9. The double-sided image film screen as set forth in any one of claims 1 to 8,

wherein a pigment thin film having one color, selected from the group consisting of brown, dark blue and black, is formed on one surface of the film screen.

10. The double-sided image film screen as set forth in claim 1 or 2,

wherein the film screen is divided into front and rear film sub-screens centering on a transparent plate under the condition that the total thickness of the film screen, the content and the particle size of the light-refracting material in the film screen satisfy the allowable ranges.